

REF ID: AP5010089

ENCLOSURE: 01

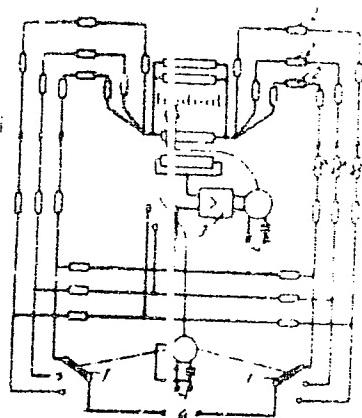


Fig. 1. Multipoint automatic balanced bridge
1- switch contacts; 2- resistances to be measured;
3- zero unit amplifier; 4- power supply

KOL'TSOV, A.A.; VALEYEVA, G.Kh.

Analysis of a measuring circuit for automatic electronic potentiometers for temperature measurements. Izv.vys.ucheb.zav.; prib. 8 no.1:37-42 '65. (MIRA 18:3)

1. Ufimskiy neftyanoy institut. Rekomendovana kafedroy avtomatizatsii proizvodstvennykh protsessov.

KOL'TSOV, A.A.; KARABANOV, D.N.

Automatic symmetric balanced bridge. Izv. vys. ucheb. zav.,
prib. 8 no.3:29-32 '65. (MIRA 18:11)

1. Ufimskiy neftyanoy institut. Rekomendovana kafedroy avtomati-
zatsii proizvodstvennykh protsessov.

CHEKANOVA, Nina Ignat'yevna, agronom Geroy Sotsialisticheskogo Truda;
KOSTROV, Petr Ivanovich; KOL'TSOV, A.D., nauchnyy red.;
CHIRKOV, A.Ya., red.; BARANOVA, N.N., tekhn. red.

[Technology of cultivating forage beans] Tekhnologiya vozdel'yu-
vaniia kormovykh bobov, Moskva, Proftekhizdat, 1962. 41 p.
(MIRA 16:2)

(Broad bean)

BAZHENOV, N.M.; VOL'KENSHTEYN, M.V.; KOL'TSOV, A.I.; KHACHATUROV, A.S.

Investigating polymers by the method of nuclear magnetic resonance.
Part 1. Vysokom.sosed. 1 no.7:1048-1055 J1 '59. (MIRA 12:11)

1. Institut vysokomolekulayrnkh soyedineniy AN SSSR.
(Polymers)

BAZHENOV, N.M. [deceased]; KOL'TSOV, A.I.; KIRPICHNIKOVA, N.P.; RYSKIN, Ya.I.;
STAVITSKAYA, G.P.; BOIKOVA, A.I.; TOROPOV, N.A.

Infrared absorption spectra, proton magnetic resonance, and
structure of dicalcium silicates α - and β -hydrates. Izv. AN
SSSR. Ser.khim. no.3:409-416 Mr '64. (MIRA 17:4)

1. Institut khimii silikatov im. I.V.Gregenshchikova AN SSSR i
Institut vysokomolekulyarnykh soyedineniy AN SSSR.

SHEYKER, Yu.N.; PERESLENI, Ye.M.; KOL'TSOV, A.I.; BAZHENOV, N.M.
VOL'KENSSTEYN, M.V.

Structure of 2-aminothiazoline. Dokl.AN SSSR 148 no.4:878-
880 F '63. (MIRA 16:4)

1. Institut khimii prirodnykh soyedineniy AN SSSR, Vsesoyuznyy
nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut
i Institut vysokomolekulyarnykh soyedineniy AN SSSR.
Predstavleno akademikom M.M.Shemyakinym.
(Thiazoline)

BAZHENOV, N.M.; VOL'KENSHTEYN, M.V.; KOL'TSOV, A.I.; KHACHATUROV, A.S.

Nuclear magnetic resonance study of polymers. Part 1: Temperature dependence of molecular mobility in different stereoisomeric forms of poly(methyl methacrylate). Vysokom. soed. 3 no.2:290-291 F '61.
(MIRA 14:5)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Methacrylic acid)
(Nuclear magnetic resonance)

S/190/62/004/006/025/026
B110/B138

AUTHORS: Volkenshteyn, M. V., Kol'tsov, A. I., Marshal', Zh.

TITLE: Investigation of polymers by means of nuclear magnetic resonance. III. Chemical reactions in solutions of poly- γ -benzyl-L-glutamate in trifluoroacetic acid

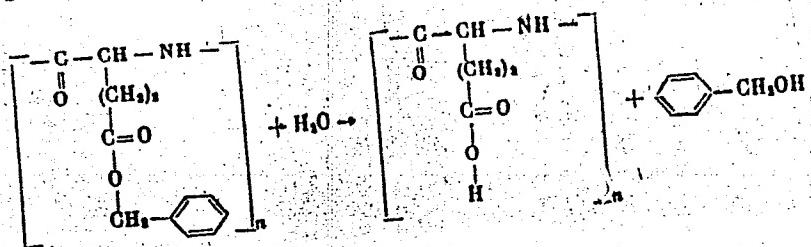
PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 6, 1962,
944-947

TEXT: The behavior of poly- γ -benzyl-L-glutamate (I) in solutions was investigated with regard to the transition from spirals to lumps. The nuclear magnetic resonance spectra of I (molecular weight 150,000) were obtained in mixtures of benzene and trifluoro acetic acid (II) with a JNM-3 spectrometer at 40 kcps. The spectra remained unchanged with an 80% volume increase of II. With further increase a new line appears at $\delta = 60$, while that of the methylene group of I bonded to the phenyl decreases at $\delta = 62$. The same occurs for solutions of I in pure II. Hydrolysis of I is assumed, the molecules losing the rigid spiral shape: ✓

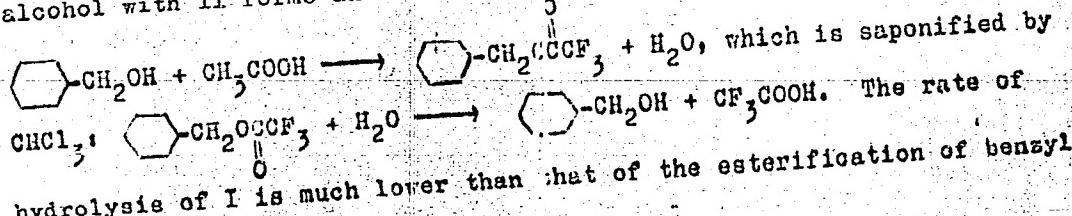
Card 1/3

S/190/62/004/006/025/026
B110/B138

Investigation of polymers by means ...



The poly-L-glutamic acid formed thereby remains in solution, the benzyl alcohol with II forms an emulsified ester:



Card 2/3

S/190/63/005/003/019/024
B101/B203

AUTHORS: Abdrashitov, R. A., Bazhenov, N. M., Vol'kenshteyn, M. V.,
Kol'tsov, A. I., Khachaturov, A. S.

TITLE: Study of polymers by nuclear magnetic resonance. III.
Mobility of polyhalogen styrene macromolecules

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 5, no. 3, 1963, 405-411

TEXT: The temperature dependence of the width and of the second moments of the nmr absorption bands of fluorine and hydrogen nuclei was studied in poly-2-fluoro-5-methyl styrene at 20-125°C. The curves $\Delta H_F(T)$ and $\overline{\Delta H_F^2}(T)$ showed distinct transitions at 85 and 115°C, the curves $\Delta H_H(T)$ and $\overline{\Delta H_F^2}(T)$ showed only one indistinct transition at 110°C. The experimental values at 20-80°C are: $\Delta H_F = 5.8 \pm 0.3$ gauss; $\overline{\Delta H_F^2} = 5.0 \pm 0.3$ gauss²; $\Delta H_H = 8.2 \pm 0.3$ gauss; $\overline{\Delta H_H^2} = 15.2 \pm 0.6$ gauss²; and at 90-110°C, $\Delta H_F = 5.3 \pm 0.3$ gauss; $\overline{\Delta H_F^2}$

Card 1/2

Study of polymers by nuclear...

S/190/63/005/003/019/024
3101/3203

= 3.6 ± 0.3 gauss². A comparison of the experimental values for $\overline{\Delta H_p^2}$ with the values calculated according to J. H. Van Vleck (Phys. Rev., 74, 1168, 1948) suggests a flat syndiotactic chain as the most probable configuration of the polymer. The transition point at 85°C is caused by torsional oscillations. The observed decrease of $\overline{\Delta H_p^2}$ can be explained by cooperative syn-phase torsional oscillations; this is also most probable for steric reasons. The transition point at 115°C is caused by softening. The decrease of $\overline{\Delta H_p^2}$ with increasing temperature is due to another form of intramolecular motion which does not affect $\overline{\Delta H_p^2}$. There are 4 figures and 1 table.

ASSOCIATION: Institut vysokomolekulyarnykh soedinenii: AN SSSR (Institute of High-molecular Compounds AS USSR)

SUBMITTED: September 20, 1961

Card 2/2

ZAPEVALOVA, N.P.; SOKOLOVA, T.A.; BAZHENOV, N.M.; KOL'TSOV, A.I.

Method of preparing N-substituted β -lactams. Dokl. AN SSSR
150 no. 3:551-554 My '63.
(MIRA 16:6)

I. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
Predstavлено академиком А. Ye. Arbuzovym.
(Lactams)

SOKOLOVA, T.A.; KOL'TSOV, A.I., ZAPEVALOVA, N.P.; OVSYANNIKOVA, L.A.

Interaction of N,N-dimethylhydrazine with derivatives of α, β -unsaturated acids. Izv.AN SSSR.Ser.khim. no.9:1727 S '64.

(MIRA 17:10)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

USTYI ZHANIN, G. Ye.; KOL'TSOV, A.I.; TIKHONIROVA-SIDOROVA, N.S.; DANILOV,S.N.

Structure of 1,4-xylitane dianhydroxylite and acetals. Zhur. ob.
khim. 34 no.12:3905-3907 D '64 (MIRA 18:1)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

YERMAKOVA, I.I.; KROPACHEVA, Ye.N.; DOLGOPLOSK, B.A., akademik; KOL'TSOV,
A.I., akademik; NEL'SON, K.V.

Interaction of 3-methyl-2-pentene with cation-type catalysts.
Dokl. AN SSSR 159 no.4 835-838 D '64 (MIRA 18:1)

1. Nauchno-issledovatel'skiy institut sinteticheskogo kauchuka
im. S.V. Lebedeva.

L 40072-66 EWT(m)/EWP(j)/T IJP(c) RM

ACC NR: AP6012417

(A) SOURCE CODE: UR/0183/65/000/006/0022/0026

AUTHOR: Sorokin, A. Ya.; Andreyeva, N. A.; Volkova, L. A.; Kol'tsov, A. I.;
Rudakov, A. P.; Pyrkov, L. M.; Frenkel', S. Ya

ORG: IVS AN SSSR

TITLE: Correlation of structural and mechanical characteristics of
polyvinyl alcohol fibers,⁵ Investigation of supermolecular arrangement
in chemical fibers and means of increasing their strength,⁵

SOURCE: Khimicheskiye volokna, no. 6, 1965, 22-26

TOPIC TAGS: polyvinyl alcohol, synthetic fiber, polymer structure,
elongation, rupture strength, correlation function, NMR, X ray analysisABSTRACT: The structural and mechanical properties of polyvinyl alcohol
fibers were investigated using the range of thermoplasticized stretch
as the controllable variable. Correlation between these properties
was shown. Linear correlation was established between the overall
orientation of the macromolecules in the fiber and orientation of the
crystallites; between rupture strength and maximum relaxation stress, and
also between these values and the reciprocal half-width reflection $\beta_{1/2}$

UDC: 677.744.72

Card 1/2

L 40072-66

ACC NR: AP6012417

and the amount of elongation (up to 450% elongation tested). It was shown that the parameter (β_{11}) describes the previous history of the samples with respect to macromolecular orientation. NMR studies showed the basic conformation of the polyvinyl alcohol fiber macromolecules is flat trans-zigzag. A combination of different analytical methods (NMR, X-ray, isothermal heating) can be used to study in succession the structure formation processes at different stages of fiber formation. Orig. art. has: 4 equations, 8 figures and 2 tables.

SUB CODE: 07,11/ SUBM DATE: 09Jun64/ ORIG REF: 011/ OTH REF: 003

Card 2/2 11b

1:7.0 EMP(j) T Pe-4 RY
AP5005593

1977/02/02/0254

Gol'ishev, A. I.; Vol'kenshteyn, M. V.

Determining the degree of orientation of macromolecules in polymer fibers
by nuclear magnetic resonance

Vysokomolekulovaya sovremenennost', v. 1, no. 1, p. 102

macromolecule, nuclear magnetic resonance, orientation

The authors suggest a means of using nuclear magnetic resonance to
determine the degree of orientation of macromolecules of polyvinyl chloride. This
method is based on the measurements of anisotropy in the nuclear magnetic resonance
of oriented polymers, and is applicable when the distribution function of
polymer chains is unknown. Preliminary calculations have been made for deter-
mining the degree of orientation of polyvinyl chloride, polyacrylamide, and
chloride. It is shown that this anisotropy varies substantially for
planar polymer chains. The authors point out that it is possible to
determine the dominant conformation of polymer chains by comparing experimental
spectral dependence of line anomaly (area) with calculated nuclear magnetic

REF ID: A95005593

dependence on the angle between the magnetic field and the axis of the fiber. The theoretical value of the mean square width of the resonance lines computed by this formula for isotropic material is similar to the experimental value obtained at room temperature for isotropic samples of polyvinyl alcohol fibers.¹⁵ This indicates that no noticeable molecular movement is present in the polyvinyl alcohol, and, by virtue of this, it indicates also that the method employed here is reliable. Orig. art. has: 3 figures and 11 formulas.

ORG: Institut vysokomolekulyarnykh soedineniy, AN SSSR (Institute of High Molecular Compounds, AN SSSR)

DATE: 10Apr64

ENCL: 00

SUB CODE: OC,NP

ATTN: Dm

OTHER: 010

VOL'KENSTEYN, M.V.; KOL'TSOV, A.I.; KHACHATUROV, A.S.

Molecular motion in poly-2,5-difluorostyrene as determined by
nuclear magnetic resonance. Vysokom. soed. 7 no.2:296-298
F '65. (MIRA 18:3)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

(A) L 13520-66 ENT(m)/EMP(j)/T RM

ACC NR: AP6001858

SOURCE CODE: UR/0190/65/007/012/2039/2047

AUTHORS: Koton, M. M.; Andreyeva, I. V.; Getmanchuk, Yu. P.; Madorskaya, L. Ya. i
Pokrovskiy, Ya. I.; Kol'tsov, A. I.; Filatova, V. A.ORG: Institute of High-Molecular Polymers AN SSSR (Institut vysokomolekulyarnykh
soyedineniy AN SSSR)TITLE: Structure of methacrolein polymers, obtained in the presence of anionic
catalysts. 3rd report in the series Polymerization of Acrolein and Its Derivatives

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 12, 1965, 2039-2047

TOPIC TAGS: polymerization, polymer structure, reaction mechanism, catalyst/ Nippon
Bunko infrared spectrophotometer DS 301, GNM 3 nuclear magnetic resonance spectrometerABSTRACT: The structure of polymers obtained from methacrolein and α -ethylacrolein
in the presence of sodium naphthalene and sodium trityl using the method described
by M. M. Koton, I. V. Andreyeva, and Yu. P. Getmanchuk (Dokl. AN SSSR, 155, 836, 1964)
was investigated. The structure analysis was performed by chemical means: oxime
formation, hydrogenation, oxidation with perbenzoic acid, ozonization, as well as by
physical means: infrared spectra, using Nippon-Bunko spectrophotometer DS-301, and
NMR spectra, using instrument GNM-3. It was established that the rate of conversion
of methacrolein and the structure of the obtained polymer are both functions of the
polymerization temperature, as illustrated in Fig. 1. Mechanism of the polymerization

UDC: 678.01:53+678.744

L 13520-66

ACC NR: AP6001858

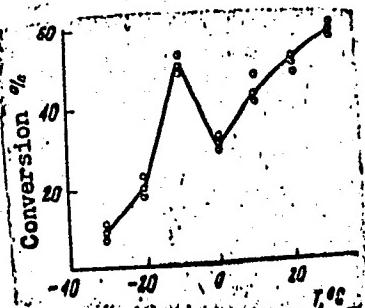
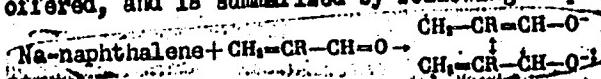
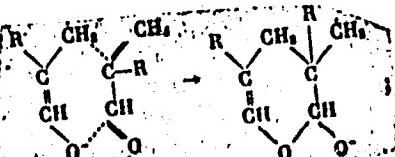


Fig. 1. Degree of methacrolein conversion to polymer within 8 hours as function of temperature. Polymerization conducted in THF in the presence of Na naphthalene (1 mol %).

reaction is offered, and is summarized by following steps: 1) initiation



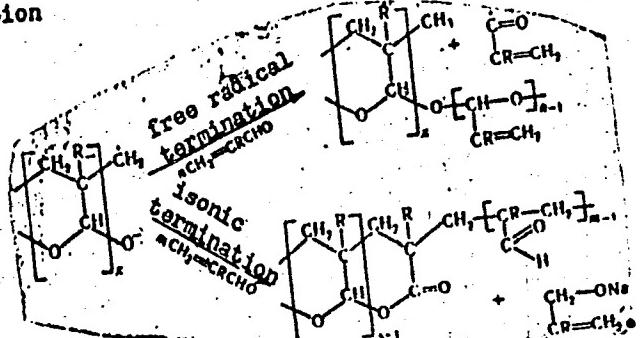
2) propagation



Card 2/3

L 13520-66
ACC NR: AP6001858

3) termination



At 0°C and above, the termination step occurs mainly along the ionic path. This mechanism explains the formation of the predominantly cyclic structures consisting of condensed tetrahydropyran rings at temperatures below 0°C. Orig. art. has: 3 tables, 6 figures, 4 formulas, and 3 equations.

SUB CODE: 11, 07/

SUBM DATE: 01Dec64/ ORIG REF: 005/ OTH REF: 014

Card 3/3 dcr

KOL'TSOV, A.I.

Proton magnetic resonance spectra and structure of the products of reaction of α, β -unsaturated acid anhydrides with asymmetrical dimethylhydrazine. Izv. AN SSSR. Ser. khim. no.8:1350-1357 '65.

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. (MIRA 18:9)

L 11778-66 EWT(i)/EWT(m)/EWP(j)/EWA(c) IJP(c)/RPL NM/NE/RM

ACC NR: AP6001091

SOURCE CODE: UR/0138/65/000/012/0006/0010

AUTHOR: Khachaturov, A. S.;
I. M.; Kol'tsov, A. I.; Bazhenov, N. M. (Deceased)

Vol'kenshteyn, M. V.; Dolgopal'skiy,

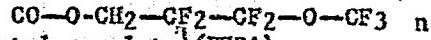
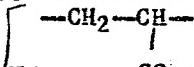
ORG: Institute of High Molecular Compounds, AN SSSR, Leningrad (Institut vysokomolekulyarnykh soyedineniy AN SSSR)

TITLE: Nuclear magnetic resonance study of fluorinated rubbers

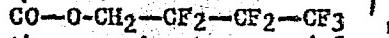
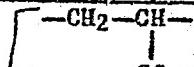
SOURCE: Kauchuk i rezina, no. 12, 1965, 6-10

TOPIC TAGS: nuclear magnetic resonance, rubber, spectrum analysis, elastomer, fluorinated organic compound

ABSTRACT: Two samples of fluorinated rubberlike elastomers were studied by means of NMR: polyperfluoromethoxyperfluoropropyl acrylate (PFMPA)



and polyperfluorobutyl acrylate (PFBA)



The temperature of the experiments ranged from 20°C to the liquid nitrogen temperature. To analyze the temperature dependence of the width of partially superimposed absorption lines, a method was proposed and used in which the width of the spectral Card 1/2

UDC: 678.743.31-134.341.541.6

L 11778-56

ACC NR: AP6001091

lines was determined from the contour of their outer shoulders. In PFMPA, the fluorine-containing groups separated by an oxygen atom have a much greater mobility than the corresponding groups in PFBA at the same temperatures. Experimental values of the second moments were determined for fluorine and hydrogen nuclei in the temperature range from -50 to -200°C for both rubbers. Theoretical values of the second moments were calculated for rubbers in the hard, nonelastic state. It was shown by comparison that only the terminal CF₃-O- group retains its capacity to move at -180°C. Orig. art. has: 4 figures.

SUB CODE: 11, 20 / SUBM DATE: none / ORIG REF: 005 / OTH REF: 012

NW

Card 2/2

ZARUBINSKIY, G.M.; KOL'TSOV, A.I.; ORESTOVA, V.A.; DANILOV, S.N.

Fluoro derivatives of polyhydric alcohols. Part 1: Ketals of glycerol and α -chlorohydrin with trifluoroacetone. Zhur. ob. khim. 35 no.9;1620-1625 S '65. (MIRA 18:10)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

L 40072-66 EWT(m)/EWP(j)/T IJP(c) RM

ACC NR: AP6012417

(A) SOURCE CODE: UR/0183/65/000/006/0022/0026

AUTHOR: Sorokin, A. Ya.; Andreyeva, N. A.; Volkova, L. A.; Kol'tsov, A. I.;
Rudakov, A. P.; Pyrkov, L. M.; Frenkel', S. Ya.

57

B

ORG: IVS AN SSSR

TITLE: Correlation of structural and mechanical characteristics of
polyvinyl alcohol fibers. Investigation of supermolecular arrangement
in chemical fibers and means of increasing their strength

SOURCE: Khimicheskiye volokna, no. 6, 1965, 22-26

TOPIC TAGS: polyvinyl alcohol, synthetic fiber, polymer structure,
elongation, rupture strength, correlation function, NMR, X ray analysisABSTRACT: The structural and mechanical properties of polyvinyl alcohol
fibers were investigated using the range of thermoplasticized stretch
as the controllable variable. Correlation between these properties
was shown. Linear correlation was established between the overall
orientation of the macromolecules in the fiber and orientation of the
crystallites; between rupture strength and maximum relaxation stress, and
also between these values and the reciprocal half-width reflection β_{1r}

UDC: 677.744.72

Card 1/2

L 40072-66

ACC NR: AP6012417

and the amount of elongation (up to 450% elongation tested). It was shown that the parameter (β_{ij}) describes the previous history of the samples with respect to macromolecular orientation. NMR studies showed the basic conformation of the polyvinyl alcohol fiber macromolecules is flat trans-zigzag. A combination of different analytical methods (NMR, X-ray, isothermal heating) can be used to study in succession the structure formation processes at different stages of fiber formation. Orig. art. has: 4 equations, 8 figures and 2 tables.

SUB CODE: 07,11/ SUBM DATE: 09Jun64/ ORIG REF: 011/ OTH REF: 003

Card 2/2 11b

KHEYFETS, O.M.; KHROMOV-BORISOV, N.V.; KOL'TSOV, A.I.

Structure of 4,6-dihydroxypyrimidine and its N-methylated derivatives. Dokl. AN SSSR 166 no. 3:635-638 Ja '66.

(MIRA 19:1)

1. 1-y Leningradskiy meditsinskiy institut im. I.P. Pavlova.
Submitted May 20, 1965.

Kol'tsov, A. V.

44-1-33

TRANSLATION FROM: Referativnyy zhurnal, Matematika, 1957, Nr 1, p 4 (USSR)

AUTHOR: Kol'tsov, A.V.

TITLE: Some Material for a Biography of Academician A.A. Markov
(Nekotoryye materialy k biografii akademika A.A. Markova)

PERIODICAL: V sb.: Voprosy istorii yestestvoznaniya i tekhniki, Nr 1, Moscow, AN SSSR,
1956, pp 204-207

ABSTRACT: Several documents from the Archives of the Academy of Sciences of
the USSR are discussed. They characterize the struggle of
Academician A.A. Markov against reactionary measures of the
Czarist government (and of some academicians) directed against
science and education.

G.R.

Card 1/1

SOV/124-57-7-7457

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 7, p 2 (USSR)

AUTHOR: Kol'tsov, A. V.

TITLE: The Organizational Activities of A. N. Krylov at the Academy of Sciences
During the Period 1918-1920 (Ogranizatsionnaya deyatel'nost' A. N.
Krylova v Akademii nauk v 1918-1920 gg.)

PERIODICAL: Tr. Inst. istorii yestestvozn. i tekhn. AN SSSR, 1956, Vol 15,
pp 46-53

ABSTRACT: Bibliographic entry

Card 1/1

Kol'tsov, A.V.

KOL'TSOV, A.V., kand.istoricheskikh nauk.

During the first years following the October Revolution; according
to the archives of the Academy of Sciences of the U.S.S.R. Vest. AN
SSSR [27] no.10:151-155 O '57. (MIRA 10:10)
(Academy of Sciences of the U.S.S.R.)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010012-3

PREDTECHENSKIY, A.V.; KOL'TSOV, A.V.

History of the Academy of Sciences of the U.S.S.R. in the works of
Soviet scientists. Vop. ist. est. i tekhn. no.6:151-159 '59.
(MIRA 12:6)

(Academy of Sciences of the U.S.S.R.)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010012-3"

KOL'TSOV, A.V. (Leningrad)

"Leningrad University" by V.V. Mavrodin, N.G. Sladkovich,
L.A. Shilov. Reviewed by A.V. Kol'tsov. Vop. ist. est. i tekhn.
no.9:182-183 '60. (MIRA 13:7)
(Leningrad University) (Mavrodin, V.V.) (Sladkovich, N.G.)
(Shilov, L.A.)

KUDRYAVTSEVA, T.S.; KOL'TSOV, A.V.

Two Lomonosov anniversaries. Vest. AN SSSR 31 no.11:77-80 N
'61. (MIRA 14:11)
(Lomonosov, Mikhail Vasil'evich, 1711-1765)

PREDTECHENSKIY, A.V. (Leningrad); KOL'TSOV, A.V. (Leningrad)

Publication of the "History of the Academy of Sciences of the
U.S.S.R.". Vop.ist.est. i tekhn. no.11:173-174 '61. (MIRA 14:11)
(Academy of Sciences of the U.S.S.R.)

KOL'TSOV, A.V., kand. istoricheskikh nauk

Lenin's care for the progress of science; materials of the
Archives of the Academy of Sciences of the U.S.S.R. Vest.
AN SSSR 35 no.4:11-16 Ap '65. (MIRA 18:6)

KOL'TSOV, A.V., kand. istoricheskikh nauk

Documents on the fortitude of scientists; materials of the
Archives of the Academy of Sciences of the U.S.S.R. Vest.
AN SSSR 35 no.5:27-31 My '65. (MIRA 18:6)

Kol'tsov, B.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010012-3

AUTHOR: Kol'tsov, B., Engineer

25-2-15/43

TITLE: A Giant Crane (Kran-Gigant)

PERIODICAL: Nauka i Zhizn', 1958, # 2, p 47 (USSR)

ABSTRACT: The concrete pouring operations for the construction of the Bratsk Hydroelectric Power Plant - the largest in size and capacity of the USSR - will be carried out by a new 430 ton double-cantilever gantry crane. It will have a cantilever boom of 50.5 m and a lifting power of 22 tons - its productivity will amount to 24,000 cu m of concrete per month. The task of designing and building the various parts of this crane was assigned to the Leningrad Plant for Hoisting and Transport Equipment imeni S.M. Kirov (Leningradskiy zavod pod'yemno-transportnogo oborudovaniya imeni S.M. Kirova); the electric motors will be delivered by the Leningrad plant "Elektrosila" and the Moscow plant "Dinamo".

There are two sketches.

AVAILABLE: Library of Congress

Card 1/1

TOLSTOVA, A. I., inzhener-metodist; Bol'shakov, A.A.; Kol'tsov, B.F.

From practices of industrial innovation. Tekst.prom. 19 no.4:70-74
Ap '59. (MIRA 12:6)

1. Tashkentskiy khlopcchetobumazhnyy kombinat (for Tolstova).
(Cotton manufacture) (Efficiency, Industrial)

KOL'TSOV, B. (g.Lyubertsy, Moskovskoy oblasti)

Pocket receiver with germanium triodes. Radio no.12:56 D '55.
(Radio--Receivers and reception)(Germanium triodes) (MIRA 914)

Kol'tsov, B.

AUTHOR: Kol'tsov, B.

107-9-42/53

TITLE: Application of Ceramic Capacitors (Primeneniye varikondov)

PERIODICAL: Radio, 1957, # 9, p 53-54 (USSR)

ABSTRACT: The article deals with the application of ceramic capacitors and refers to the article of T. Verbitskaya and V. Kul'tsep, published in "Radio" # 11, 1955. Further a reference is made to an inserted page in the center of subject periodical, where the main data of ceramic capacitors manufactured by the Soviet industry are listed.

The "BK1-1", "BK1-2", "BK1-3" and "BK1-4" types are disc shaped with two wire leads. The small sized "BK1-M" type has a diameter of 2 mm and is contained in a plastic holder with pressed-in wire leads. The "BK1-E" type is disc-shaped and has tape leads. Several elements of the latter type may be assembled in one block for increasing the capacitance. The capacitors are coated by a red varnish to protect them from humidity.

There are 10 figures.

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KOLTSEV, B.V.

1. PAGE 1 BOOK INFORMATION - Sov/AT78

9(1)

Mashino-tehnicheskoye obshchestvo priborostroitel'noy

preryaemosti. Moskovskoye pravlenye

transistorovaya elektronika v priborostroenii: zhurnik trudov konferentsii (Transistor Electronics in the Instrument-making Industry) (Collection of Conference Transactions) Moscow, Georgiev, 1959. 289 p. 2,400 copies printed.

Ed.: N.I. Chistyakov, Doctor of Technical Sciences, Professor; Ed. of Publishing House: S.D. Krasnosev, Tech. Ed.: V.P. Kosulin; Managing Ed.: A.S. Zagorodnyay, Engineer.

PURPOSE: The book is intended for scientific and engineering personnel of the instrument-making and radio industries engaged in the development of electronic and radio equipment.

COVERAGE: The authors of this collection of articles discuss the theory, principle of operation, calculation and application of electronic circuits using transistors. They also describe transistor application in measuring circuits, computer, radio and automatic and remote control circuits. The book is based on transactions of the Scientific and Engineering Conference organized by MTO in Moscow in December 1956. The conference discussed 50 papers on the resistors, photocells, thermocouples, coupling elements, nonlinear capacitors, crystal diodes, and transistors. A considerable number of these papers have been included in the present book. No personal names are mentioned. References appear at the end of each article.

TABLE OF CONTENTS:

B.N. Koltsev, Engineer. Dispatcher-operated System Using Nonlinear Capacitors and Transistors for Remote Control of Mines 252

The author briefly describes the operation of a remote control system used in mines. His attention is given to the operation of current-limiting and receiving devices and their

Card 10/12

components, such as pulse generators and pulse distributing circuits using nonlinear capacitors and pulse forming circuits and nonlinear capacitors using transistors. There are 6 references of which 3 are Soviet and 3 English.

S.V. Masyrovsky, Engineer. Oscillators and Decoding Devices Using Transistors 267

The author discusses a two-channel transmission system containing coding and decoding devices and describes the system components, such as pulse oscillators and modulators using transistors. There are no references.

V.V. Gorbunov, Engineer. A Remote Control System Using Transistors 280

The author describes the circuits and presents the results of an experimental analysis of the transistor coding system of a three-channel

Card 11/12

remote control line. There are no references.

AVAILABLE: Library of Congress

27473

KOL'TSOV, Boris Vasil'yevich; SOBOLEVSKIY, A.G., red.; LARIONOV, G.Ye.,
tekhn.red.

[Miniature loudspeakers for transistorized radio receivers]
Miniaturnye gromkogovoriteli dlia priemnikov na tranzistorakh.
Moskva, Gos.energ.izd-vo, 1960. 45 p. (Massovaia radiobiblioteka,
no.361). (MIRA 13:6)

(Loudspeakers) (Transistor radios)

KOL'TSOV, Boris Vasil'yevich; MOLOKANOV, Petr L'vovich; LUGVIN, V.G.,
red.; LARIONOV, G.Ia., tekhn. red.

[Diagrams, networks, and components of transistor radios]
Skhemy, uzly i detalii priemnikov na transistoreakh. Moskva,
Gos. energ. izd-vo, 1962. 94 p. (Massovaja radiotekhnika,
no.432) (MIRA 15:4)

(Transistor radios)

KOL'TSOV, B.V.

New principles for designing transducers for measuring displace-
ments and accelerations. Nauch.socob.IGD 14:77-87 '62.
(MIRA 16:1)

(Vibration—Measurement) (Transducers)

MIKHAYLOV, Aleksandr Konstantinovich; KOL'TSOV, F.M., red.; STEPANOV,
N.S., tekhn. red.

[New building materials made of local raw material] Novye
stroitel'nye materialy iz mestnogo syr'ia. Cheboksary,
Chuvashskoe gos. izd-vo, 1961. 105 p. (MIRA 15:11)
(Chuvashia--Building materials industry)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010012-3

KOL'TSOV, G.V.
KOL'TSOV, G.V.

The Voronezh White (Pesk) hens. Ptitsvodstvo 8 no. 3:38-40 Mr '58.
(Voronezh Province--Poultry breeds)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010012-3"

KOVAL'SKIY, V.V.; REZAYEVA, L.T.; KOL'TSOV, G.V.

Trace element content in the organism and blood cells of ascidians.
Dokl. AN SSSR 147 no. 5:1215-1217 D '62. (MIRA 16:2)

1. Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo
AN SSSR. Predstavлено академиком A.P. Vinogradovym.
(Trace elements in the body) (Tunicata)

KOL'TSOV, I.

Contribution of trade-union organizations to the improvement of
public areas and services in the city. Zhil.-kom.khos. 10
no.9:25-26 '60. (MIRA 13:9)

1. Predsedatel' Gruppovogo komiteta profsoyusa rabochikh mestnoy
promyshlennosti i kommunal'nogo khozyaystva.
(Perovo--Municipal services)

KOL'TSOV, I.F.

Improve the design of lubricators. Bezop. truda v prom. 2 no.12:36
D '58. (MIRA 11:12)

1. Inzhener-kontroler Upravleniya Severo-Kavkazskogo okruga
Gosgortekhnadzora RSFSR.
(Oil well drilling---Equipment and supplies)

ZHEVNOVATYY, A. I.; VOLKOV, V.N.; PEVZNER, I.Z.; Prinimali uchastiye:
KRUK, O.P.; KRUTITSKIY, V.M.; KOL'TSOV, I.M.; TSVETKOV, F.A.

Effect of elastic ultrasonic waves on reducing the speed of
scale formation. TSvet. met. 35 no.3:48-53 Mr '62.

(MIRA 15:4)

(Ultrasonic waves—Industrial applications)

KOL'TSOV, I.N., inzhener (Ufa).

Efficient placement of railroad car maintenance points. Zhel.dor.
transp.38 no.12:28-31 D '56. (MLRA 10:2)
(Railroads--Cars--Maintenance and repair)

KOL'TSOV, I.N.

Shortened working day and shift schedule. Zhel.dor.transp. 42
no.8:73-75 Ag '60. (MERA 13:8)

1. Kontrol'nyy normirovshchik promyvochno-preparochnoy stantsii,
stantsiya Chernikovka-Vostochnaya.
(Railroads—Employees—Hours of service)

KOL'TSOV, K.S.; PLANOVSKIY, A.N.

Effect of the concentration and the physicochemical properties
of mixtures being separated by rectification on the mass
transfer coefficient. Khim. prom. no. 7:573-577 O-N '60.

(Distillation, Fractional) (Mass transfer) ^(MIRA 13:12)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010012-3

BOYARCHUK, P.G., kand. tekhn. nauk; KOL'TSOV, K.S., kand. tekhn. nauk

Distributor for film tubular rectification columns. Khim. i
neft. mashinostr. no.6:6-7 D (64) (MIRA 18:2)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010012-3"

KOL'TSOV, M.

Utilization of the waste heat of stationary engine cooling water for
the heating of workshops. MTs 14 no.3:30 Mr '54. (MLRA 7:4)

1. Voronezhskiy sel'skokhozyaystvennyy institut. (Hot-water heating)

KOL'TSOV, M., inzhener.

Review the planning of production norms for grains elevators.
Muk.-elev.prem.22 no.7:14-15 Jl '56. (MLRA 9:9)

1.Kuybyshevskye etdeleniye Promzernoproyekt.
(Grain elevators--Production standards)

KOL'TSOV, M.

Consolidate attained successes. Voen. znan. 34 no.8:19 Ag '58.
(MIRA 11:12)

1. Instruktor Bryanskogo oblastnogo komiteta Dobrovol'noe obshchestva sodeystviya armii, aviacii i flotu.
(Sports) (Military education)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010012-3

KOLTSOV, M.

"Drifting Radio-Range Beacons in the Ocean," Morskoy Flot., No.4, 1948

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010012-3"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010012-3

KOL'TSOV, M.

Fate of a diary. Voen. znan. 38 no.10:18 0 '62. (MIRA 15:10)
(Shuleiko, Nikolai Ivanovich)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010012-3"

VYDREVICH, B.I.; KARANDASHOV, Yu.I.; GAVRILIN, L.F.; BLIZNYUK,
V.A.; KOL'TSOV, M.M.; YAVNILOVICH, Ya.A.; FROLOVA,
L.A.; MOSYAKOV, Yu.F.

[Metal products for industrial use; a handbook] Metallo-
izdelia promyshlennogo naznachenia; spravochnik. Pod
red. E.A. IAvnilovicha. Moskva, Metallurgiya, 1966. 727 p.
(MIRA 19:1)

SOV/84-58-7-30/46

AUTHOR: Kol'tsov, N.

TITLE: No Accident in Ten Years (Za desyat' let-- ni odnoy avari) (Za desyat' let-- ni odnoy avari)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 7, p 34 (USSR)

ABSTRACT: A short report on an unidentified operational unit of the Aeroflot under G. Serzhantov, commending the unit and a number of its workers for their performance which insures accident-free operation.

Card 1/1

SOV/85-58-9-9/33

AUTHOR: Kol'tsov, N., Judge of the Republic Category

TITLE: New Records of Model-aircraft Builders (Novyye rekordy aviamodelistov)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 9, p 5 (USSR)

ABSTRACT: The author describes contests in aircraft and helicopter model building held to commemorate the anniversary of the VLKSM.

Card 1/1

RABINOVICH, R.I. Prinimali uchastiye: ALEGLAN, L.K., kand. sel'khoz. nauk; BARABANOVA, N.N.; BOSENKO, K.S.; VINNIK, V.V.; GRIGORCHUK, Ye.V.; GUMEROV, A.Kh.; DOBROCHASOV, D.F.; ZAMURAYEV, I.V.; ZAYTSEVA, A.G., kand. sel'khoz. nauk; KOL'TSOV, N.A.; LEVITIN, Kh.Z., kand. biol. nauk; LISITSKIY, B.Ya.; MATYASH, G.P.; MENTOV, A.V.; RABINOVICH, R.I.; SAL'NIKOV, V.V.; SVECHNIKOV, I.V.; SIMONOV, P.K.; SMIRNOV, V.V.; SMIRNOV, L.P.; SMIRNOVA, V.I.; STEPANOVA, V.I.; TARASOV, A.A.; FILATOVICH, V.V., kand. sel'khoz. nauk; FEDOROV, N.G., kand. tekhn. nauk; TSAPLIN, M.F.; KHROMOV, L.V.; DAVYDOVA, I., red.; PAL'MINA, N., tekhn. red.

[Sverdlovsk in Agricultural Exhibition of 1959] Sverdlovskaya sel'-khoziaistvennaya vystavka. Sverdlovsk, Sverdlovskoe knizhnoe izd-vo, 1960. 131 p. (MIRA 14:10)

1. Sverdlovsk. Sverdlovskaya oblastnaya sel'skokhozyaystvennaya vystavka, 1959.

(Sverdlovsk—Agricultural exhibitions)

KOL'TSOV, N.I., inzhener (g. Ufa)

Improving local planning in the railroad car industry. Zhel.
dor. transp. 38 no.9:81-82 8 '56. (MLRA 9:10)

(Railroads--Cars--Construction)

BUSHUNOV, V.T.; KOL'TSOV, N.I., kand. tekhn. nauk, retsenzent;
RATNER, A.I., inzh., red.; MIKHEYEVA, R.N., red.izd-va;
SIMONOVSKIY, N.Z., red.izd-va; SHCHETININA, L.V., tekhn.
red.

[Printing presses; designs and plans] Pechatnye mashiny;
raschet i proektirovanie. Moskva, Mashgiz, 1963. 614 p.
(MIRA 16:12)

(Printing press)

BEZHANOV, B.N. Prinimal uchastiye BEZHANOV, B.B., inzh.; KOL'TSOV,
N.I., kand. tekhn.nauk, retsenzent; KUSNITSYN, G.I., kand.
tekhn. nauk, red.; CHFAS, M.A., red. izd-va; BARDINA, A.A.,
tekhn. red.

[Pneumatic systems in the automation of technological processes]
[Pnevmaticheskie sistemy avtomatizatsii tekhnologicheskikh protsessov. Moskva, Mashgiz, 1963. 287 p.]

(MIRA 16:7)

(Pneumatic control)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010012-3

KOL'TSOV, N.K.

Hereditary molecules. Biul. MOIP. Otd. biol. 70 no.4:75-104
Jl.-Ag '65. (MIRA 18:9)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010012-3"

KOL'TSOV, N. M. (Belovo)

Technology of the rhythmic operation of stations and approach
tracks. Zhel. dor. transp. 45 no.1:78-80 Ja '63.
(MIRA 16:4)

1. Zamestitel' nachal'nika otdela ekspluatatsii Belovskogo
otdeleniya Zapadno-Sibirskoy dorogi.

(Railroads—Freight) (Coal—Transportation)

MOROZOVA, N.A., KOL'TSOV, N.S.

Chemistry and technology of copper oxychloride. [Trudy] NIULF
no.167;133-145 '60. (MIRA 13:8)

(Copper chlorides)
(Fungicides)

MOROZOVA, N. A., KOL'TSOV, N. S., TRUSHKINA, N. I., LAZAREVA, Ye. Ya.

Method of producing a copper subsulfate preparation. [Trudy] NIUIP
no.167:151-155 '60.
(Copper sulfate) (Fungicides)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010012-3

MOROZOVA, M.A., KOL'TSOV, N.S.

Ways of improving the quality of colloidal sulfur. [Trudy] NIULF
no.167:193-200 '60. (MIRA 13:8)
(Sulfur)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824010012-3"

MOROZOVA, M.A.; KOL'TSOV, N.S.; TRUSHKINA, N.I.; ZUBOV, M.F.; GOLYSHIN, N.M.

Copper-containing fungicides for green plants. [Trudy] NIUIF
no.164:38-40 '59. (MIRA 15:5)
(Fungicides) (Copper compounds)

KOGAN, L.M.; KOL'TSOV, N.S.; LITVINOV, N.D.

Apparatus for determining the solubilities of chlorine and other gases in liquids. Zhur.fiz.khim. 37 no.8:1914-1917 Ag '63.
(MIRA 16:9)

1. Nauchnyy institut po udobreniyam i insektofungisidam.
(Chlorine) (Gases) (Solubility)

KOGAN, L.M.; KOL'TSOV, N.S.; LITVINOV, N.D.

Solubility of chlorine and carbon dioxide in hexachlorobutadiene.
Zhur.fiz.khim. 37 no.8:1875-1877 Ag '63. (MIRA 16:9)

1. Nauchnyy institut po udobreniyam i insektofungisidam.
(Chlorine) (Carbon dioxide) (Butadiene)

KOL'TSOV N.
PERELYGIN, D.Ya.; KOL'TSOV, N.Ya., inzh.

Znamensk paper factories operate without a technical control section.
Bum. prom. 32 no.12:25-26 D '57.
(MIREA 11:1)

1. Direktor Znamenskikh bumazhnykh fabrik (for Perelygin).
(Znamensk--Paper industry)

KARAYEV, Ali-Ovsat; VOLIK, Aleksey Lukich; KOLTSOV, Oleg Pavlovich;
BUYANOVSKIY, N.I., red.; KAESHKOVA, S.M., ved. red.;
YAKOVLEVA, Z.I., tekhn. red.

[Drilling oil and gas wells; practice of the petroleum workers
of Krasnodar Territory] Burenie neftianykh i gazovykh skvazhin;
cptyt neftianikov Krasnodarskogo kraia. Moskva, Gostoptekhizdat,
1962. 170 p.
(Krasnodar Territory—Oil well drilling)

(MIRA 15:12)

KARAYEV, A.K.; KOL'TSOV, O.P.

Casing of deep wells under complex geological conditions.
Azerb.neft.khoz. 41 no.5:12-13 My '62. (MIRA 16:2)
(Kuban--Oil well casing)

KOL'TSOV, P.

Collective farms build multistoried buildings. Sel'. stroi. 15
no. 1:16-17 Ja '61. (MIRA 14:3)

1. Nachal'nik Pskovskogo oblmezhkolkhozstroya.
(Kalinovka (Pskov Province)--Housing, Rural)

KOL'TSOV, P.A., kand.sel'skokhozyaystvennykh nauk

Possibilities for increasing agricultural production in the Far
East. Zemledelie 6 no.4:6-12 Ap '58. (MIRA 11:4)
(Soviet Far East--Agriculture)

Aut 1964, 1:78.

VAYNSHTOK, Izmail Samuilovich; MIZROKHI, Yu.N., inzh., retsenzent; KOL'TSOV,
P.Ye., inzh., red.; MOROZOVA, M.N., red. izd-va; GERASIMOV, Ye.S.,
tekhn. red.

[Ultrasound and its use in machine manufacturing] Ul'trazvuk i ego
primenenie v mashinostroenii. Moskva, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1958. 139 p. (MIRA 11:7)
(Machinery industry) (Ultrasonic waves--Industrial applications)

86287

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2209

S/153/60/003/005/004/016
B013/B058

AUTHORS: Aleskovskiy, V.B., Kol'tsov, S.I.

TITLE: Reaction of Carbon Tetrachloride With Active Silicon Dioxide.
I. Dissociation Kinetics of CCl_4 in Silica Gel

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1960, Vol.3, No.5, pp. 852 - 856

TEXT: The dissociation of carbon tetrachloride in silica gel was studied this paper. Industrial silica gel was used. It was freed from iron by means of hydrochloric or sulfuric acid, washed with water and activated at a temperature of about 390°C . Carbon tetrachloride was dried over calcium chloride, and distilled twice. A fraction boiling at $76.7^{\circ} - 77^{\circ}\text{C}$ was used. The experiments were made in the air current as well as in a nitrogen current cleaned of oxygen. An instrument shown in Fig.1 was used for studying the dissociation kinetics. The temperature dependence of carbon tetrachloride in activated silica gel is shown in Fig.2, where a similar dependence for quartz (3) is shown for comparison. It can be seen therefrom that the reaction of the samples treated with hydrochloric acid (1)

Card 1/3

Reaction of Carbon Tetrachloride With
Active Silicon Dioxide. I. Dissociation
Kinetics of CCl_4 in Silica Gel

86287

S/153/60/003/005/004/016
B013/B058

occurs much more extensively than of those treated with sulfuric acid (2). A distinct salient point in the curves at 310°C is remarkable. This may point to a change of the reaction character. The peculiarities of structure and properties of silica gel, compared with quartz, appear most clearly on the kinetic dissociation curves for CCl_4 , which were plotted in dry air medium (Fig.3). The presence of maxima at $T = 4 - 6$ minutes is characteristic. Endurance tests (up to 14 hours) showed that the degree of dissociation of CCl_4 reached after about 30 minutes remained constant during the whole experiment. When repeating the experiments with the same sample (Fig.4), it was, however, established that the intensity of dissociation dropped gradually. At least two consecutive reactions can be inferred therefrom. The course of the calculated temperature dependence of the logarithms of the constants k_1 and k_2 (Fig.5) clearly points to a change of the reaction character at 300°C . The following cause of this change can be inferred from a comparison of experimental with published data: One reaction mechanism is replaced by another at 300°C . At experiments in pure nitrogen medium at temperatures slightly above 300°C , the separation of an extremely reactive

Card 2/3

86287

Reaction of Carbon Tetrachloride With
Active Silicon Dioxide. I. Dissociation
Kinetics of CCl_4 in Silica Gel

S/153/60/003/005/004/016
B013/B058

chlorine-containing substance behind the silica-gel layer is observed. This substance has not yet been finally identified. It may be assumed that rather stable ' CCl_3 ' radicals are formed here (the life-time of these radicals being 1.18 sec. (Ref.9)), which are quickly dimerized in the absence of oxygen $2\text{CCl}_3 \rightarrow \text{C}_2\text{Cl}_6$ and which do not react with aqueous aniline solution. There are 5 figures and 9 references: 3 Soviet, 2 German, 2 US, 1 British and 1 Swedish.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta.
Kafedra analiticheskoy khimii (Leningrad Technological
Institute imeni Lensovet . Department of Analytical
Chemistry)

SUBMITTED: November 10, 1958

Card 3/3

KOL'YISOV, S.I.

Reaction of trichlorosilane with silica gel. Zhur.prikl.khim. 38
no.621384 Je '65. (MIRA 18:10)

1. Leningradskiy tekhnologicheskiy institut imeni Lensovata.

KOL'TSOV, S.I.; ALESKOVSKIY, V.B.; GRIVA, Z.I., red.

[Silica gel, its structure and chemical properties]
Silikagel', ego stroenie i khimicheskie svoistva. Lenin-
grad, Goskhimizdat, 1963. 95 p. (MIRA 18:7)

ITEM NR. AP5015886

UR/0080/65-035 606-13e4 1384
547.245 + 661.183.7

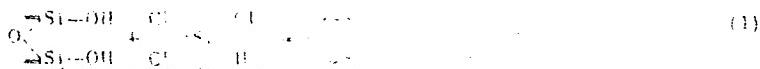
Kultgov, S. I.

Reaction of trichlorosilane with silica gel

Journal prikladnoy khimii, v. 38, no. 6, 1965

13. silica gel, organosilicon compound, tri-alkyl silane

Industrial KSK silica gel was reacted with trichloroethane vapors in a dry air at 180°C. Analysis of the product showed that it contained hydrogen (8 meq/g) and chlorine (1.57 ± 0.03 meq/g), the ratio of Cl₂ to H₂ being close to 38%. By comparing the content of new functional groups with the content of water (in the form of OH groups) in the original silica gel, one can see that H_2O . Hence, the reaction takes place as follows:



DOC NR: AP5015886

Silica gel reacts with HSiCl_3 , the latter is hydrolyzed by the OH groups of the which HSiCl_3 molecule reacts with two OH groups, and thus the silicon-oxygen bond is expanded, and new functional groups -OH and -H linked to the silicon atom are formed. The product is fairly stable to heat (withstands heating to 100°C). The functional hydrogen on the surface of the silica gel manifests

reducing properties. For example, when the hydrogenated silica gel reacts with an AgNO_3 solution, metallic silver is formed. Orig. art. has 2 formulas.

ON: Leningradskiy tekhnologicheskiy institut imeni Lebedeva (Leningrad Chemical Institute)

DATE: 28 Mar 64

ENC L: 00

SUB-CODE: MT

V: 002

OTHER: 000

LIVEROVSKAYA, N.V.; KOL'TSOV, S.I.

Effect of adsorbed potassium ions on the dehydration of silica gel.
Zhur. fiz. khim. 39 no.3:773-774 Mr '65. (MIRA 18:7)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

KOL'TSOV, S. K.

K obosnovaniyu vybora zazora u porshnevых маслосбрасывающих колец в быстroredных двигателях. (Vestn. Mash., 1949, no. 4, p. 12-13)

Judicious choice of gaps for oil discarding piston rings in high-speed engines.

DLC: TN4.VL4

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